ASBJØRN LARSEN

**Howaldtswerke**
Aktiengesellschaft
**Werk Kiel**

# Whalecatcher

1:100

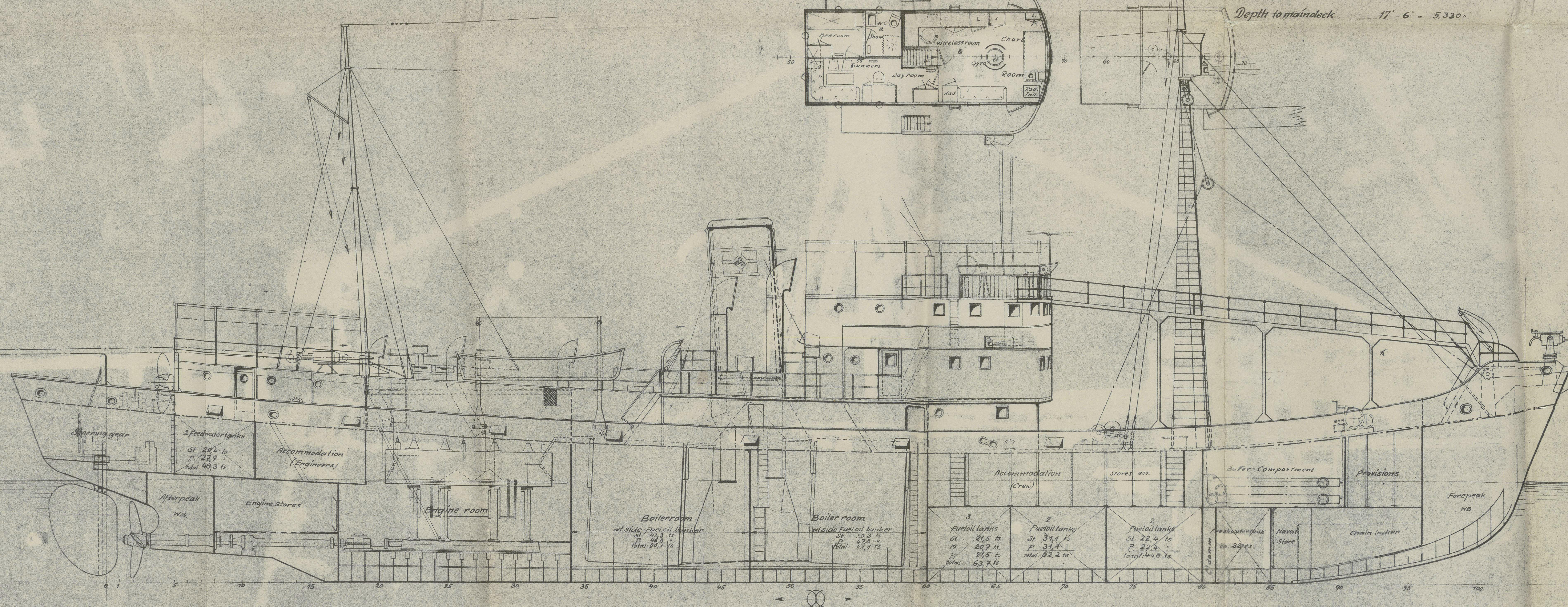
**SKR No. 140**

**Dimensions:**

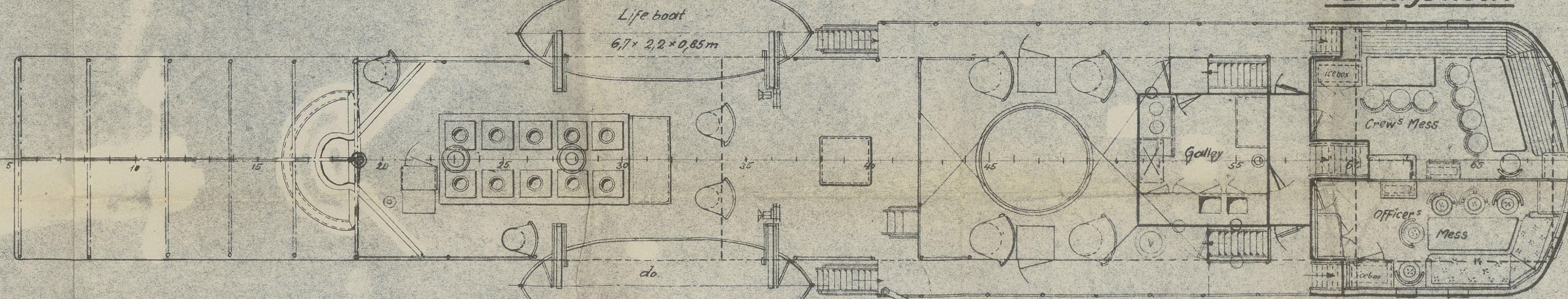
| | |
|---|---|
| Length betw. Perp | 190'-0" = 57,90 m |
| Breadth moulded | 33'-3" = 10,130 " |
| Depth to maindeck | 17'-6" = 5,330 " |

**Navigating bridge**

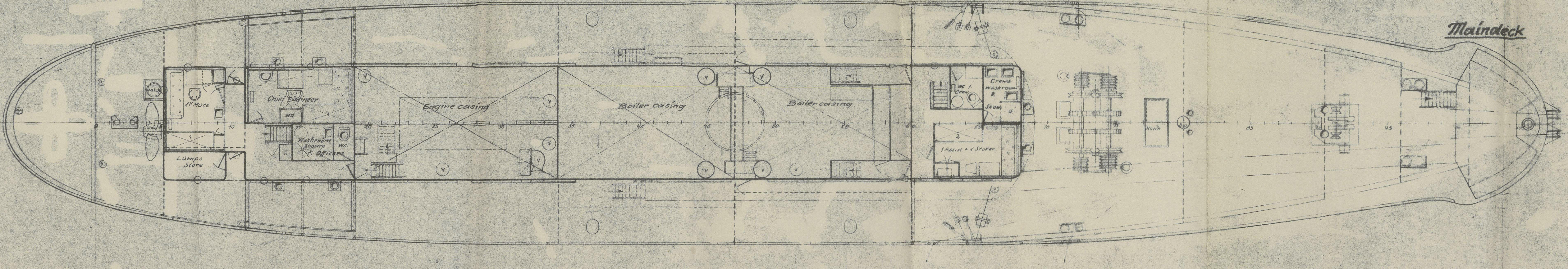
**Flying bridge**


Bedroom
WC & Show.
Gunners
Dayroom
Wirelessroom & Gyro
Chart Room
Rad.
Rad. Ind.
Steering gear
2 Feedwatertanks
St. 20,4 ts
P. 27,9 "
total 48,3 ts
Accommodation (Engineers)
Afterpeak WB.
Engine stores
Engine room
Boilerroom
at side Fueloil bunker
St. 43,3 ts
P. 46,8 "
total: 90,1 ts
Boiler room
at side Fueloil bunker
St. 50,3 ts
P. 47,8 "
total: 98,1 ts
Accommodation (Crew)
Stores aso.
Buffer-Compartment
Provisions
Forepeak WB
3 Fueloil tanks
St. 21,5 ts
M. 20,7 ts
P. 21,5 ts
total: 63,7 ts
2 Fueloil tanks
St. 31,1 ts
P. 31,1
total: 62,2 ts
2 Fueloil tanks
St. 22,4 ts
P. 22,4 "
total: 44,8 ts
Freshwatertank ca. 22 ts
C'damm
Naval Store
Chain locker
0
1
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100

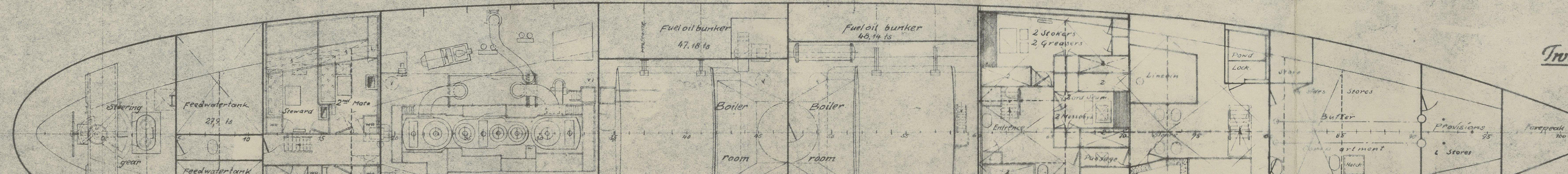
**Bridgedeck**


Life boat
6,7 × 2,2 × 0,85 m
do.
Galley
Icebox
Crews Mess
Officers Mess

**Maindeck**


Watch
1st Mate
Lamps Store
Chief Engineer
WR
Washroom Shower f. Officers
WC.
Engine casing
Boiler casing
Boiler casing
WC f. Crew
Crews Washroom & Show.
1 Assist. + 1 Stoker

**Tweendeck**


Steering gear
Feedwatertank 27,9 ts
Feedwatertank 20,4 ts
Steward
2nd Mate
3rd Eng.
2nd Eng.
WR
Engine room
Fueloil bunker 47,18 ts
Fueloil bunker 43,64 ts
Boiler room
Boiler room
Fueloil bunker 48,14 ts
Fueloil bunker 50,69 ts
2 Stokers 2 Greasers
Entrence
2 Messboys
Passage
Provis
4 able Seamen
Linebin
Refrig. Store
Linebin
Powd. Lock.
Stores
Buffer Compartment
Hatch
Refrig. Eng.
Provisions & Stores
Forepeak

Rpt. No. Kiel. 409

General Arrangement
for conversion to Whalecatchers

„Asbjörn Larsen"
„Milliam Kihl"
„Arnfinn Bergan"
„Leif Welding"

Howaldtswerke A. G.
Werk Kiel
30. NOV. 1951
Büro SK

Zeichnungs-No SKR 140
geänd. 6.7. [illegible]
[illegible]
[illegible]

015273-015283-0289

Sections

S/S 'Wallflower'

Kiel 26 AUG 1949

N N 'Asbjorn Larsen'

"Kel. 125 '

RECORDS DEPT.
LONDON

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Lloyd's Register
Foundation

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S/S Wallflower

# FLOWER CLASS

# PATROL VESSEL OF WHALER TYPE.

TO BRITISH CORPORATION "SPECIAL CLASS"

## SECTIONS.

AND LLOYDS REGISTER A- "FOR GOVERNMENT SERVICE

DIMENSIONS

| | |
|---|---|
| LENGTH B.P. | 190'-0" |
| BREADTH MLD. | 33'-0" |
| DEPTH MLD. | 17'-6" |

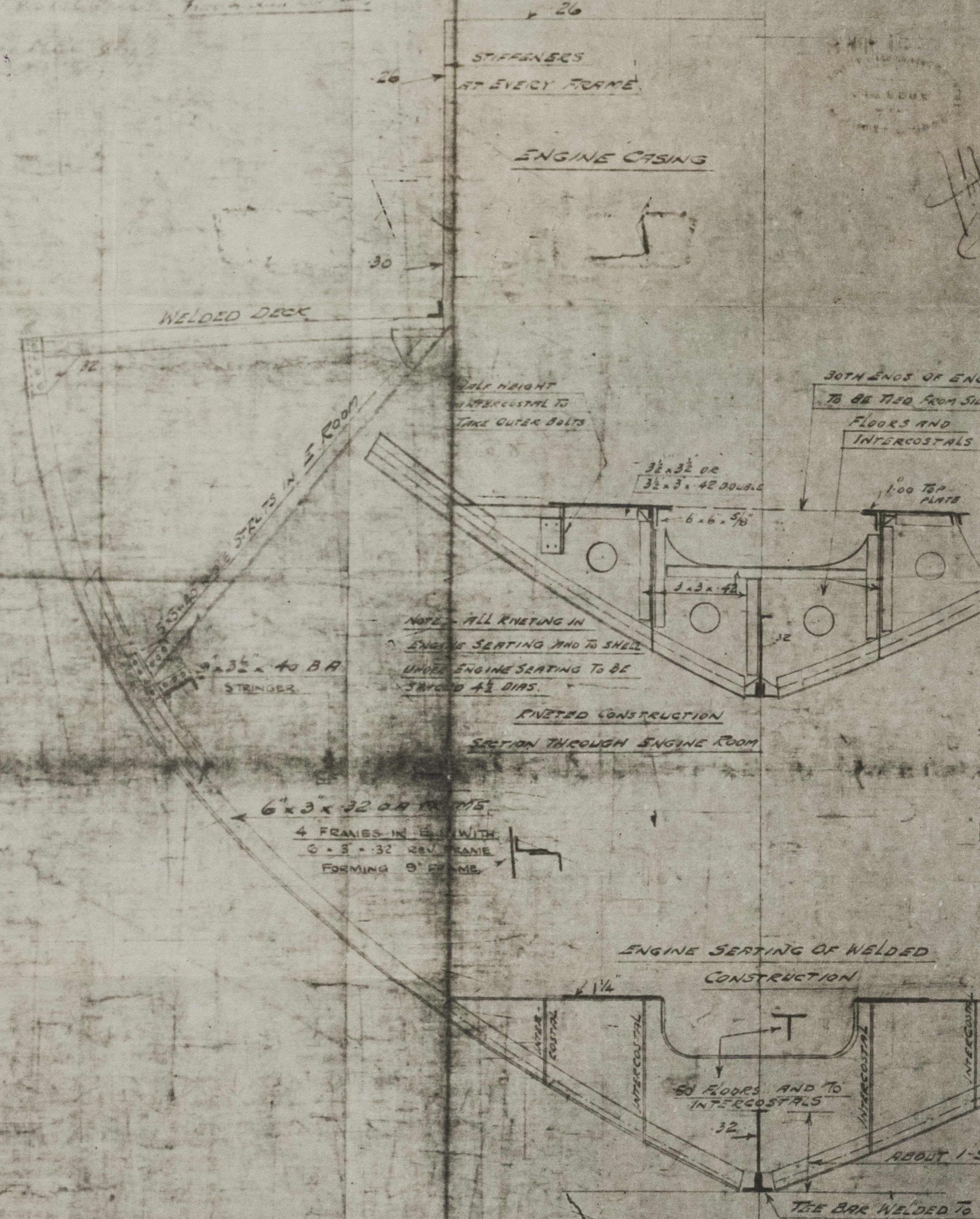
SCALE 1/2" = 1 FOOT.

Noted & Returned

6th Jan 1940

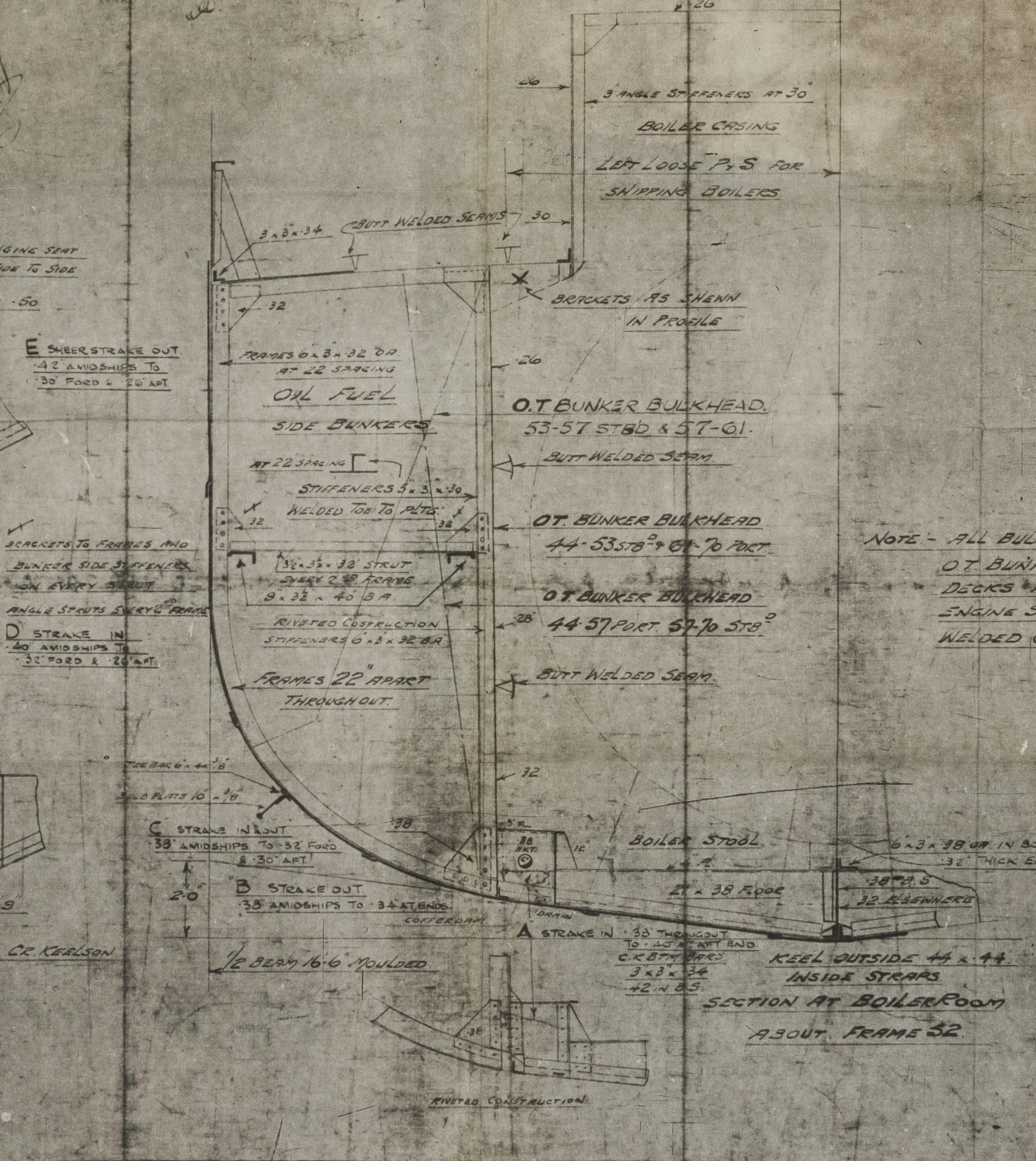
United with THE BRITISH CORPORATION REGISTER

for J.T.


26
STIFFENERS AT EVERY FRAME
26
ENGINE CASING
30
WELDED DECK
32
HALF HEIGHT INTERCOSTAL TO TAKE OUTER BOLTS
BOTH ENDS OF ENGINE SEAT TO BE TIED FROM SIDE TO SIDE
FLOORS AND INTERCOSTALS ·50
3½ x 3½ OR 3½ x 3 x ·42 DOUBLE
6 x 6 x 5/8
1·00 TOP PLATE
3 x 3 x ·42
32
5 x 3 x ·40 ANGLE STRUTS IN E. ROOM
9 x 3½ x 40 B.A. STRINGER
NOTE - ALL RIVETING IN ENGINE SEATING AND TO SHELL UNDER ENGINE SEATING TO BE SPACED 4½ DIAS.
RIVETED CONSTRUCTION
SECTION THROUGH ENGINE ROOM
6" x 3" x ·32 O.A. FRAME
4 FRAMES IN E.R. WITH 6 x 3 x ·32 REV. FRAME FORMING 9" FRAME
ENGINE SEATING OF WELDED CONSTRUCTION
1¼"
INTERCOSTAL
INTERCOSTAL
INTERCOSTAL
INTERCOSTAL
·50 FLOORS AND TO INTERCOSTALS
·32
ABOUT 1-9
TEE BAR WELDED TO CR. KEELSON

SECTION AT ENGINE ROOM

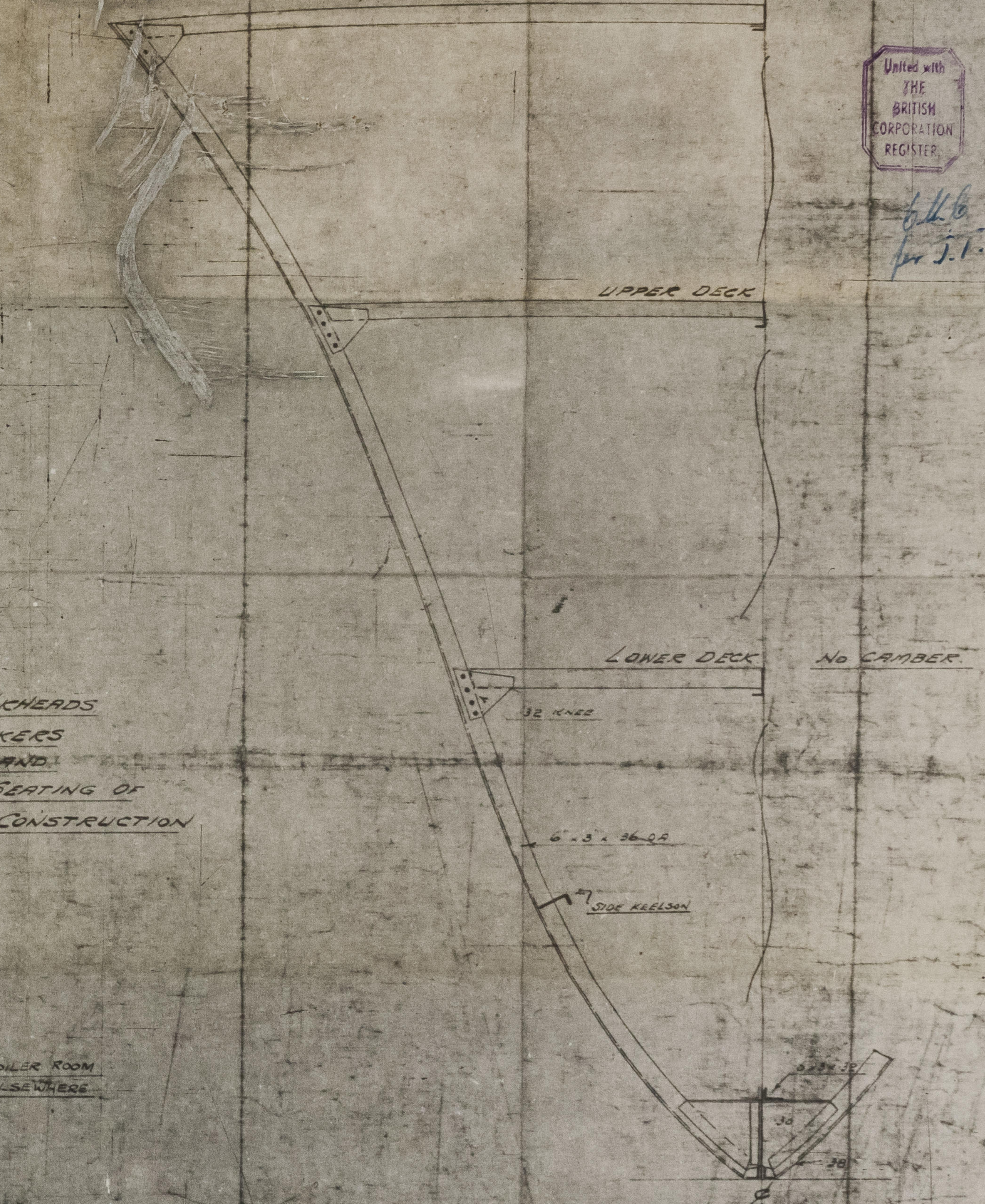
ABOUT FRAME 77


E SHEER STRAKE OUT ·42 AMIDSHIPS TO ·30 FORD & ·26 AFT.
BRACKETS TO FRAMES AND BUNKER SIDE STIFFENERS ON EVERY STRUT
ANGLE STRUTS EVERY 2ND FRAME
D STRAKE IN ·40 AMIDSHIPS TO ·32 FORD & ·26 AFT.
26
26
3" ANGLE STIFFENERS AT 30"
BOILER CASING
LEFT LOOSE P & S FOR SHIPPING BOILERS
3 x 3 x ·34
BUTT WELDED SEAMS
30
BRACKETS AS SHEWN IN PROFILE
32
FRAMES 6 x 3 x ·32 O.A. AT 22 SPACING
·26
OIL FUEL SIDE BUNKERS
O.T. BUNKER BULKHEAD. 53-57 STBD & 57-61.
AT 22 SPACING
BUTT WELDED SEAM.
STIFFENERS 5 x 3 x ·30 WELDED TOE TO PLTS.
32
32
O.T. BUNKER BULKHEAD 44-53 STBD & 61-70 PORT
3½ x 3½ x ·32 STRUT EVERY 2ND FRAME
9 x 3½ x ·40 B.A.
O.T. BUNKER BULKHEAD 44-57 PORT. 57-70 STBD
RIVETED CONSTRUCTION STIFFENERS 6 x 3 x ·32 B.A.
·28
FRAMES 22" APART THROUGHOUT.
BUTT WELDED SEAM.
TEE BAR 6 x 4 x 3/8
BILGE PLATE 10" x 3/8
·32
C STRAKE IN & OUT ·38 AMIDSHIPS TO ·32 FORD & ·30 AFT.
·38
3" FL.
·38 BKT.
12"
BOILER STOOL
2'-0"
B STRAKE OUT ·38 AMIDSHIPS TO ·34 AT ENDS
COFFERDAM
DRAIN
21" x ·38 FLOOR
6 x 3 x ·38 O.A. IN BOILER ROOM ·32" THICK ELSEWHERE
·38 B.S.
·32 ELSEWHERE
A STRAKE IN ·38 THROUGHOUT TO ·40 AT AFT END
C.K. BTM BARS 3 x 3 x ·34 ·42 IN B.S.
KEEL OUTSIDE 44 x ·44 INSIDE STRAPS
1/2 BEAM 16'-6" MOULDED
·38
RIVETED CONSTRUCTION.

SECTION AT BOILER ROOM

ABOUT FRAME 52

NOTE - ALL BULKHEADS
O.T. BUNKERS
DECKS AND
ENGINE SEATING OF
WELDED CONSTRUCTION


FORECASTLE DECK.
UPPER DECK
LOWER DECK
NO CAMBER.
32 KNEE
6 x 3 x ·36 O.A.
SIDE KEELSON
6 x 3 x ·38
·30
·38
℄

SECTION AT FORE END

ABOUT FRAME 17

201

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Rudder & Bearing

5

"Wallflower"

Kiel 26 AUG 1949

N.N 'Asbjorn Larsen'

Kel 125

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WALLFLOWER

SF12 98/126

A.637612.
Corvettes. Flower Cl.
E.1.

NOTED
26.10.39

Wallflower

NOTED 28/10/39
A.R.O

Noted
9.2.40

noted 4/Dec/39

# DRAWING Nº PV. 11.
# PATROL VESSELS.
# WHALER TYPE. FLOWER CLASS
# RUDDER & RUDDER BEARING.

MATERIAL · CAST STEEL.
TO BRITISH CORPORATION TESTS
& SURVEYORS' SATISFACTION.
SCALES AS SHEWN.

APPROVED BY
ADMIRALTY.
PER MF 30/63 37.

RUDDER AREA 85·5 SQ. FT.

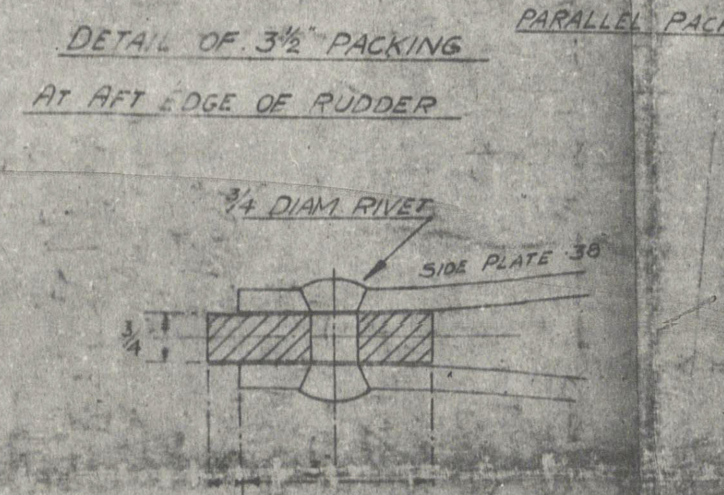
SPEED 16 KNOTS

C.G OF AREA ABAFT C.L. OF STOCK =
2·86 FT. AFT OF C.L. OF STOCK.

AREA OF RUDDER ABAFT C.L. OF STOCK =
63·6 SQ. FT. = 74·4% OF TOTAL AREA.

C.G. OF TOTAL RUDDER AREA =
1·86 FT. AFT OF C.L. OF STOCK.

TORQUE = 321 INCH TONS - GOING AHEAD.
TORQUE = 349 INCH TONS - GOING ASTERN.


DETAIL OF 3¾ PACKING
AT AFT EDGE OF RUDDER
¾ DIAR RIVETS
SIDE PLATE
¾

CONNECTION OF SIDE PLATES
TO PACKING PIECE.

## RIVETING

7/8 DIAR RIVETS SPACED 3½ APART IN TIPS OF RUDDER ARMS
TO 5¼ APART AT POST.

7/8 DIAR TAP RIVETS TO BE SUBSTITUTED (SPACED AS ABOVE)
WHERE THE THICKNESS OF ARM EXCEEDS 4"

RUDDER PLATES TO BE TAPPED TO RUDDER POST BY 7/8 TAPS
SPACED 6" CR. TO CR.

¾ DIAR RIVETS IN PACKING FRAME SPACED 3⅜ APART CRS.

RIVETS IN TIPS OF RUDDER ARMS TO BE CAREFULLY
SPACED & DRILLED

RIVET HOLES IN RUDDER PLATES TO BE COUNTERSUNK.

CAST STEEL
RUDDER BEARING
9½ DIA
9" DIA
9½ DIA
16" DIAM
20'6
OVERALL LENGTH 18'6⅛
3'3¾" BRASS LINER SHRUNK ON
AFT DRAFT 16'2½ MLD
VEED FOR WELDING
13" × 16 ATHWARTSHIP 1-7
RUDDER PLATES 38 THICK
SPACES BETWEEN ARMS UNFILLED
PARALLEL PACKING
THIS PORTION WELDED ON AFTER ANNEALING OF MAIN CASTING
PACKING PIECE
BASE LINE
11'-0
4'-11
RUDDER
SCALE 1" = 1 FOOT.
TOP STOCK TO BE MACHINED WHERE MARKED THUS
POSITION AND SIZE OF KEYWAYS TO SUIT MAKE OF STEERING GEAR FITTED. PARTICULARS TO BE SUPPLIED LATER.
STRAIGHT TAPER
3½ × ¾ PARALLEL PACKING
TAPERED PACKING PIECE
PLAN OF TOP OF RUDDER
SECTION
ARM AT TIP 3½" × ¾
16" × 13 F&A
MAIN STOCK HAS STRAIGHT TAPER BOTH ATHWARTSHIPS AND FORE AND AFT
RUDDER BEARING
CASTING
1½" = 1 FOOT.
28" DIA
21⅜ DIA
20⅝ DIA
24⅜ DIA
FRAME 105
7/8 RIVETS
1⅛ WEB
DRAIN HOLE
6⅛ OVERLAP
FR. FOOT LINE
ELEVATION.
105
104
103
PLAN OF SHELL FLANGE.
3'-7"
FR. 105
FR. 103.
6·6·50 O.A.
50 FLOOR
SECTION OF BEARING CASTING
AT FRAME 104
AFTER SIDE OF WEBS ON FR 104
ALL HOLES IN WEBS 15/16 DIAM FOR 7/8 DIA RIVS
25⅜ DIA
2·6
½ PLAN OF TOP OF GLAND.
MATERIAL · GUNMETAL.
6 · 1" DIA STANDARD WHITWORTH GLAND STUDS AND NUTS MUNTZ METAL. 24¾" P.C.D.
½ PLAN OF TOP OF BEARING.
4 IN Nº ¾ DIA MUNTZ METAL COUNTERSUNK SCREWS TO PREVENT CAGE LIFTING
28" DIA
1/32 CLEARANCE
RUDDER STOCK
OVER LINER
20⅛ DIA
6 TURNS OF 1¼ SQUARE PACKING
SCREWED FULL LENGTH STANDARD WHITWORTH
GUNMETAL GLAND
MACHINED LOCALLY IN WAY OF STUDS
ALL SURFACES MARKED THUS TO BE MACHINED
16" DIA CAST STEEL RUDDER STOCK
17⅜ DIA OVER LINER
20⅛ DIA TO INSIDE OF CAGE.
21⅜ DIA TO OUTSIDE OF CAGE
24⅜ OUTSIDE DIA OF BARREL
20⅝ DIA IN WAY OF BEARING RINGS
19⅛ DIA OVER LIGNUM VITAE
20 9/16 DIA CLEAR OF BEARING RINGS
21⅜ DIA OF MAIN BARREL CLEAR OF BEARING RINGS
25⅜ OUTSIDE DIA OF BARREL OUTSIDE OF FRAME FOOT LINE
BRASS CAGE
¾ LIGNUM VITAE
13/16 DIA BRASS LINER
3'3¾ LINER
2'9¼
BEARING
DETAILS.
3" = 1 FT.
½ SECTION THRO LIGNUM VITAE BEARING
TAPERED BRASS STRIP ON FORE AND AFT SIDES OF BEARING TO SECURE LIGNUM VITAE STRIPS HELD BY 3-⅝ CSUNK MUNTZ METAL SCREWS
½ PLAN OF BOTTOM OF BEARING
ZINC RING IN HALVES 25⅜ O.D. × 3⅝ WIDE EACH ½ SECURED BY 4-⅝ MUNTZ METAL HEXAGON TAP BOLTS WITH WASHERS. 22½ P.C.D
¾ CLEAR

UNITED WITH THE BRITISH CORPORATION REGISTER